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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/768,904	01/24/2001	Lap-Wai Chow	B-3964 618029-8	4228

7590 12/28/2001

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EXAMINER

NGUYEN, JOSEPH H

ART UNIT PAPER NUMBER

2815

DATE MAILED: 12/28/2001

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/768,904	CHOW ET AL.
	Examiner	Art Unit
	Joseph Nguyen	2815

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on _____.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-16 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-16 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 07 May 2001 is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 - a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4 .	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

Drawings

Figure 1(a) should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "a metal plug disposed within a contact region" in claims 1 and 5 and the "a metal plug disposed outside a contact region" in claims 9 and 13 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered. ✓

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance. ✓

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 1, 5, 9 and 13, it is not clear what it is applicant regards as "a metal plug contact disposed within a contact region" and "a metal plug contact disposed

outside a contact region". There is no such contact region disclosed anywhere in figures of this present application in such a way to distinctly support and define the claimed subject matter.

Claims 2-4, 6-8, 10-12 and 14-16 are also rejected due to their dependency on the rejected base claims above. ✓

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-16 are rejected under 35 U.S.C. 102(e) as being anticipated by Scott et al.

Regarding claim 1, Scott et al discloses on figure 6 a semiconductor device adapted to prevent and/or thwart reverse engineering comprising "field oxide disposed on a semiconductor substrate; a metal plug contact [26] disposed within a contact

region and above said field oxide layer; and a metal [32] connected to said metal plug contact".

Regarding claim 2, Scott et al discloses on figure 6 the semiconductor device comprises integrated circuit.

Regarding claim 3, Scott et al discloses on figure 6 the field oxide layer comprises silicon oxide.

Regarding claim 4, Scott et al discloses on figure 6 the integrated circuits further comprise complementary metal oxide semiconductor integrated circuits and bipolar integrated circuits.

Regarding claim 5, Scott et al discloses a method for preventing and /or thwarting reverse engineering comprising steps of "providing a field oxide layer disposed on a semiconductor substrate; providing a metal plug contact [26] disposed within a contact region and above said field oxide layer; and connecting a metal [32] to said metal plug contact".

Regarding claim 6, Scott et al disclose a method on figure 6 the semiconductor, device comprises integrated circuit.

Regarding claim 7, Scott et al discloses on figure 6 the field oxide layer comprises silicon oxide.

Regarding claim 8, Scott et al discloses on figure 6 the integrated circuits further comprise complementary metal oxide semiconductor integrated circuits.

Regarding claim 9, Scott et al discloses on figure 6 a semiconductor device adapted to prevent and/or thwart reverse engineering comprising "field oxide disposed

on a semiconductor substrate; a metal plug contact [26] disposed outside a contact region and above said field oxide layer; and a metal [32] connected to said metal plug contact".

Regarding claim 10, Scott et al discloses on figure 6 the semiconductor device comprises integrated circuit.

Regarding claim 11, Scott et al discloses on figure 6 the field oxide layer comprises silicon oxide.

Regarding claim 12, Scott et al discloses on figure 6 the integrated circuits further comprise complementary metal oxide semiconductor integrated circuits and bipolar integrated circuits.

Regarding claim 13, Scott et al discloses a method for preventing and /or thwarting reverse engineering comprising steps of "providing a field oxide layer disposed on a semiconductor substrate; providing a metal plug contact [26] disposed outside a contact region and above said field oxide layer; and connecting a metal [32] to said metal plug contact".

Regarding claim 14, Scott et al disclose a method on figure 6 the semiconductor device comprises integrated circuit.

Regarding claim 15, Scott et al discloses on figure 6 the field oxide layer comprises silicon oxide.

Regarding claim 16, Scott et al discloses on figure 6 the integrated circuits further comprise complementary metal oxide semiconductor integrated circuits.

Claims 1-3, 5-7, 9-11, 13-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Sur, Jr., et al.

Regarding claim 1, Sur, Jr., et al discloses on figure 13 a semiconductor device adapted to prevent reverse engineering comprising "field oxide layer [12] disposed on a semiconductor [10]; a metal plug contact [36] disposed within a contact region and above said field oxide layer; and a metal [38b] connected to said metal plug contact".

Regarding claim 2, Sur, Jr., et al discloses on figure 13 the semiconductor device comprises integrated circuit.

Regarding claim 3, Sur, Jr., et al discloses on figure 13 the field oxide layer further comprises silicon oxide.

Regarding claim 5, Sur, Jr., et al discloses on figure 13 a method for preventing reverse engineering comprising steps of "providing a field oxide layer [12] disposed on a semiconductor substrate [10]; providing a metal plug contact [36] disposed within a contact region and above said field oxide layer; and connecting a metal to said metal plug contact".

Regarding claim 6, Sur, Jr., et al discloses on figure 13 the semiconductor device comprises integrated circuits.

Regarding claim 7, Sur, Jr., et al discloses on figure 13 the field oxide layer further comprises silicon oxide.

Regarding claim 9, Sur, Jr., et al discloses on figure 13 a semiconductor device adapted to prevent reverse engineering comprising "field oxide layer [12] disposed on a

semiconductor [10]; a metal plug contact [36] disposed outside a contact region and above said field oxide layer; and a metal [38b] connected to said metal plug contact".

Regarding claim 10, Sur, Jr, et al discloses on figure 13 the semiconductor device comprises integrated circuit.

Regarding claim 11, Sur, Jr., et al discloses on figure 13 the field oxide layer further comprises silicon oxide.

Regarding claim 13, Sur, Jr., et al discloses on figure 13 a method for preventing reverse engineering comprising steps of "providing a field oxide layer [12] disposed on a semiconductor substrate [10]; providing a metal plug contact [36] disposed outside a contact region and above said field oxide layer; and connecting a metal to said metal plug contact".

Regarding claim 14, Sur, Jr., et al discloses on figure 13 the semiconductor device comprises integrated circuits.

Regarding claim 15, Sur, Jr., et al discloses on figure 13 the field oxide layer further comprises silicon oxide.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US Patent 5679595 to Chen et al discloses an integrated circuit.

US Patent 5977593 to Hara discloses an integrated circuit.

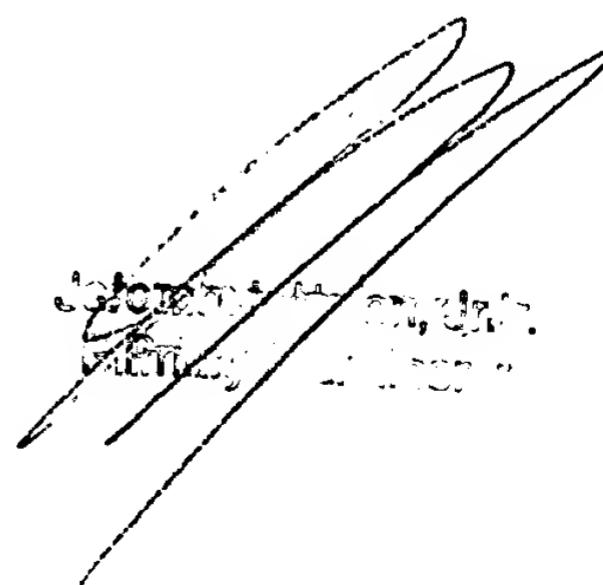
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Nguyen whose telephone number is (703) 308-1269. The examiner can normally be reached on Monday-Friday, 7:30 am- 4:30 pm

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lee can be reached on (703) 308-1690. The fax phone numbers for the organization where this application or proceeding is assigned is (703) 308-7382 for regular communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

JN
December 20, 2001

A handwritten signature in black ink, appearing to read "JOSEPH NGUYEN", is written over a diagonal line. The signature is somewhat stylized and cursive.